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PATENT COOPERATION TREATY

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To:			PC	WIPO	PCT
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Suite 1507, Yoksam Heights Bldg, 642-19, Yoksam-dong, Kangnam-gu, Seoul, 135-981, Republic of Korea		WRIT INTERNATIO	TEN OPIN	ION OF THI CHING AUT	E CHORITY
			(PCT Rule	43bis.1)	
	·	Date of mailing (day/month/year) 28	в остові	ER 2004 (2	8.10.2004)
Applicant's or agent's file reference		FOR FURTHER ACTION			
NANO-DEVICES		See paragraph 2 below			
International application No.	International filing date		Priority date	e(day/month/y	rear)
PCT/KR2004/000166	30 JANUARY 200		l		
International Patent Classification (IPC)	or both national classifica	ation and if C			
IPC7 D01D 5/00					
Applicant					
KIM, Hak-Yong et al	•	-			
Box No. IV Lack of unity X Box No. V Reasoned state citations and example. Box No. VI Certain docum	nent of opinion with regar of invention ement under Rule 43bis.1 explanations supporting superits cited its in the international apprations on the international emary examination is made and the chosen IPEA has read the c	(a)(i) with regard to novel the statement olication al application will be concept that this does not application as so considered.	elty, inventive insidered to be bly where the Bureau under the applicant ation of 3 more	e step or induste a written op applicant chor Rule 66.1 bis is invited to sonths from the	strial applicability; sinion of the coses an Authority (b) that written
For further options, see Form PCT/2 3. For further details, see notes to Form	(SA/220.				
N. Wine address of the ISAN		Authorized officer			

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WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/KR2004/000166

Box No. I Basis of this opinion 1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: a. type of material a sequence listing table(s) related to the sequence listing b, format of material in wirtten format in computer readable form c. time of filing/furnishing contained in the international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search. 3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additioanl copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. 4. Additional comments:

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/KR2004/000166

Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Novelty (N)	Claims	1 - 16	YES
, , ,	Claims	None	NO
Inventive step (IS)	Claims	1 - 16	YES
	Claims	N0ne	NO
Industrial applicability (IA)	Claims	1 - 16	YES
	Claims	None	NO

2. Citations and explanations:

Reference is made to the following document:

D1: KR 0258651 Y1

Claim 1 of the present invention relates to a bottom-up electrospinning apparatus comprising a spinning dope main tank, a metering pump, a voltage generator, a nozzle block and a collector disposed above said nozzle block, which is characterized by a spinning dope discharge device on said nozzle block.

D1 relates to a bottom-up electrospinning apparatus, which is similar as the present invention in the technical feature. However, the present invention is different in that the spinning dope discharge device transferring automatically oversupplied spinning dope in the nozzle block into the spinning dope main tank, is connected to said nozzle block.

Consequently, the bottom-up electrospinning apparatus and nano fibers and a method of manufacturing and coating nano fibers of claim 1 and claims 2-16 dependent on claim 1 of the present invention are novel and inventive under PCT Article 33(2)-(3).

There is no reason for denying industrial applicability of the present invention.